

PATENT ABSTRACTS OF JAPAN

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G06F 15/68(21)Application number : **01-227843**(71)Applicant : **FUJITSU LTD**(22)Date of filing : **01.09.1989**(72)Inventor : **TANIHIRO YOSHINARI****(54) BINARY PICTURE CONVERSION DEVICE****(57)Abstract:**

PURPOSE: To reduce the cost of a binary picture conversion device by converting the register matrix of $N \times N$ into the matrix of $M \times S$, and realizing the dither matrix of $M \times M$ outwardly.

CONSTITUTION: A storage means 1 stores the threshold data of the dither matrix of N -lines \times M -rows, and a transferring means 3 transfers the threshold data of the storage means 1 to a register group 2 by a line unit, and a selecting means 4 selects the corresponding threshold data from the register group 2 synchronizing with that the picture data of a picture with gradation is scanned in a main scanning direction and is read out, and a comparing means 5 compares the read out picture data with the threshold data selected by the selecting means 4. Then, the picture data of the picture with the gradation is compared with the threshold data of the dither matrix of N -lines \times M -rows through N -pieces, at least, of the register groups 2, and the register matrix of $N \times M$ is converted into the matrix of $M \times S (= N \times N)$, and the dither matrix of $M \times M$ is realized outwardly, and the picture data is binarized. Thus, the binary picture conversion of low cost and high efficiency can be executed.

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ABSTRACT:

PURPOSE: To reduce the cost of a binary picture conversion device by converting the register matrix of N×N into the matrix of M×S, and realizing the dither matrix of M×M outwardly.

CONSTITUTION: A storage means 1 stores the threshold data of the dither matrix of N-lines × M-rows, and a transferring means 3 transfers the threshold data of the storage means 1 to a register group 2 by a line unit, and a selecting means 4 selects the corresponding threshold data from the register group 2 synchronizing with that the picture data of a picture with gradation is scanned in a main scanning direction and is read out, and a comparing means 5 compares the read out picture data with the threshold data selected by the selecting means 4. Then, the picture data of the picture with the gradation is compared with the threshold data of the dither matrix of N-lines × M-rows through N-pieces, at least, of the register groups 2, and the register matrix of N×M is converted into the matrix of M×S(=N×N), and the dither matrix of M×M is realized outwardly, and the picture data is binarized. Thus, the binary picture conversion of low cost and high efficiency can be executed.

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